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APPLICATION NO.	N NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/771,487	10/771,487 02/03/2004		Jerry Wu	2859	
25859	7590	06/18/2004		EXAMINER	
WEI TE CH		ΓΙΟΝΑL, INC.	ZARROLI, MICHAEL C		
1650 MEMC		•	ART UNIT	PAPER NUMBER	
SANTA CLA	SANTA CLARA, CA 95050				
				DATE MAILED: 06/18/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
	10/771,487	WU ET AL.					
Office Action Summary	Examiner	Art Unit					
	Michael C. Zarroli	2839					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period w Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be tim y within the statutory minimum of thirty (30) days vill apply and will expire SIX (6) MONTHS from to , cause the application to become ABANDONE	ely filed s will be considered timely. the mailing date of this communication. O (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed on the continuation received 2/3/04.							
2a) This action is FINAL . 2b) ⊠ This	action is non-final.	·					
•	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
4a) Of the above claim(s) is/are withdraw 5) ☐ Claim(s) is/are allowed. 6) ☑ Claim(s) <u>1-9</u> is/are rejected. 7) ☐ Claim(s) is/are objected to.	Claim(s) is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. Claim(s) is/are allowed. Claim(s) 1-9 is/are rejected.						
Application Papers							
9) The specification is objected to by the Examine 10) The drawing(s) filed on <u>03 February 2004</u> is/are Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex	e: a) \boxtimes accepted or b) \square objected drawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	ected to. See 37 CFR 1.121(d).					
Priority under 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
Attachment(s)		•					
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)							
Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	Paper No(s)/Mail Da 5) Notice of Informal Pa 6) Other:	te. <u>6/8/04</u> . atent Application (PTO-152)					

DETAILED ACTION

Claim Rejections - 35 USC § 112

- 1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter, which the applicant regards as his invention.
- 2. Claims 1-9 rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claims 1, 4 and, 7 recite that the shielding plates are located every adjacent **two** lines. None of the drawings show this limitation. All the drawings show the shielding plates adjacent **every line** (e.g. figures 3 & 9). In the attached interview summary the applicant seems to interpret this language as indicated in the drawings. The examiner will interpret the claim language the same way.

The term "involvement with the spacer" in claim 4 is a relative term, which renders the claim indefinite. The term "involvement with the spacer" is not defined by the claim, the specification does not provide a standard for ascertaining the requisite degree, and one of ordinary skill in the art would

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not be reasonably apprised of the scope of the invention. Where is this limitation shown on the drawings? The examiner will interpret this limitation to mean that the spacer does not touch the shielding plates.

Claims 2, 5 and, 8 are not understood. How can there be alternatively arranged signal and ground **pads** (which are recited to be on the PCB) along a line? Which drawing shows this? The examiner will interpret this claim to mean what is shown in figures 3 or 7.

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Claim Rejections - 35 USC § 103

3. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary.

Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

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4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 1-3 and, 7-9 (as best understood) rejected under 35 U.S.C. 103(a) as being unpatentable over Beaman et al in view of Simmons et al.

Beaman discloses a plurality of lines (10) each including a pair of signal conductors (11, 12) and a ground conductor (15), a printed circuit board (60) defining opposite top and bottom surfaces (fig. 6) with a plurality of signal and ground conductive pads (64, 65, 67) thereon, the signal conductors being fixed to the corresponding signal conductive pads, respectively (figures 2 & 6), a plurality of shielding metallic plates (30) located between every adjacent two lines (fig. 6), respectively, for isolation, each of said shielding plates including at least one front finger located above the printed circuit board and fixed to the corresponding ground conductive pad on the printed circuit board (fig. 6), and a rear body portion (fig. 5) extending rearward from the finger and behind the printed circuit board; wherein each of said shielding plates is not fixed to any portions of the two neighboring lines except the ground conductor (fig. 5 left) of only one of said two neighboring lines (fig. 6).

Beaman does not disclose that the lines are enclosed within a cable.

Simmons discloses a cable (6) that encloses a plurality of lines.

At the time the invention was made, it would have been obvious to a person of ordinary skill in the art to enclose the lines of Beaman into a cable as taught by Simmons. The motivation/suggestion for doing so would have been to better protect and manage the lines. In addition, it has been held that forming in one piece an article that has formerly been formed in two pieces and put together involves only routine skill in the art. Howard v. Detroit Stove Works, 150 U.S. 164 (1893).

Regarding claims 2-3 and, 8-9 Beaman discloses that said signal conductive pads and said ground conductive pads are alternately arranged along one line on each of said top and bottom surfaces (fig. 6) wherein the front end of the signal conductors of the lines and the front fingers of the shielding plates are aligned with one another in a lateral direction perpendicular to a front-to-back direction of the printed circuit board (figures 4 & 6).

Allowable Subject Matter

6. Claim 4 would be allowable if rewritten or amended to overcome the rejection(s) under 35 U.S.C. 112, second paragraph, set forth in this Office action.

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7. Claims 5-6 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, second paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.

8. The following is a statement of reasons for the indication of allowable subject matter: In combination with claim 4, the spacer that does not come in contact with the shielding plates.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael C. Zarroli whose telephone number is 571-272-2101. The examiner can normally be reached on 7:30 to 3:30 M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lynne Feild can be reached on (571) 272-2800 ext 39. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Michael C. Zarroli Primary Examiner Art Unit 2839

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